

03050206-020

(Four Hole Swamp)

General Description

Watershed 03050206-020 is Orangeburg and Calhoun Counties and consists primarily of **Four Hole Swamp** and its tributaries from Bull Swamp to Cow Castle Creek. The watershed occupies 72,553 acres of the Upper and Lower Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Rains-Goldsboro-Hobcaw-Lynchburg-Mouzon series. The erodibility of the soil (K) averages 0.15 and the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 51.4% agricultural land, 27.1% forested land, 14.5% forested wetland (swamp), 4.1% urban land, 2.3% barren land, 0.3% water, and 0.3% nonforested wetland (marsh).

As a reach of Four Hole Swamp, this watershed accepts the drainage from all streams entering the swamp system upstream. This section of Four Hole Swamp also accepts drainage from Middle Pen Swamp, Polk Spring Creek, Indian Camp Branch, Goodbys Swamp (Keller Branch), Mill Branch, and Bush Branch. There are a total of 120.3 stream miles and 145.4 acres of lake waters in this watershed. Four Hole Swamp and Middle Pen Swamp are classified FW* (site specific classification requires DO not less than 4.0 mg/l and pH between 5.0-8.5), and the remaining streams are classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
E-059	P/INT	FW	FOUR HOLE SWAMP AT S-38-50, 5.2 MILES SE OF CAMERON
RS-01036	RS01/BIO	FW*	GOODBYS SWAMP AT U.S. 176, 6 MI SW OF ELLOREE
E-111	W/INT	FW*	FOUR HOLE SWAMP AT SC 210

Four Hole Swamp – There are two SCDHEC monitoring sites along this section of Four Hole Swamp, and recreational uses are partially supported at both sites due to fecal coliform bacteria excursions. At the upstream site (**E-059**), aquatic life uses are fully supported. P,P'DDE and P,P'DDE (metabolites of DDT) were detected in the 1998 sediment sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total suspended solids suggest improving conditions for these parameters. At the downstream site (**E-111**), aquatic life uses are not supported due to dissolved oxygen excursions.

Goodbys Swamp (RS-01036) – Aquatic life uses are fully supported based on macroinvertebrate community. Recreational uses are not supported due to fecal coliform excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

NPDES#

TYPE

COMMENT

MIDDLE PEN SWAMP

CONNIE MAXWELL CHILDRENS HOME

PIPE #: 001 FLOW: 0.009

SC0032671

MINOR DOMESTIC

Nonpoint Source Management Program

Mining Activities

MINING COMPANY

MINE NAME

PERMIT #

MINERAL

LAFARGE MATERIALS, INC.

FELKEL MINE

0939-75

CLAY

Growth Potential

There is a low to moderate potential for growth in selected areas of this watershed, which contains portions of the City of Orangeburg and the Town of Elloree. Interstate 26 crosses this watershed and should promote some growth around the interchange of U.S. 301 out of the City of Orangeburg. U.S. 176 also crosses U.S. 301 as it parallels I-26.